DOCUMENT RESUME

ED 034 381 EF 003 688

AUTHOR	Weston, Jerome J.; Oliver, F. E.
TITLE	Space Inventory and Utilization, University of Michigan, Annual College and University Machine Records Conference (13th, University of Iowa, Iowa City; April 22-24, 1968).
PUB DATE	Apr 68
NOTE	35p.
AVAILABLE FROM	Office of Financial Analysis, University of Michigan, Ann Arbor, Michigan 48104
EDRS PRICE	EDRS Price MF-$0.25 HC Not Available from EDRS.
DESCRIPTORS	*College Planning, *Computer Oriented Programs, Computer Programs, *Facility Inventory, *Facility Utilization Research, Interior Space, Physical Facilities, Space Classification, *Space Utilization

ABSTRACT

A description is presented of the space inventory procedures and the space utilization records and system in use at the University of Michigan. Some examples are offered of earlier attempts at space records that led to the present computerized system. A procedure outline is presented regarding data gathering, computer reports (space inventory and use, and teaching room utilization), computer programs, and the summary report to management. A sample room utilization record, space utilization survey instructions, space utilization survey room type code list and function definitions, and sample space inventory and use reports are included in the appendices. (FS)

ED034381

Space Inventory and Utilization

The University of Michigan

Presented by

Jerome J. Weston

F. E. Oliver

13th Annual

College and University Machine Records Conference

April 22 - 24, 1968

The University of Iowa, Iowa City, Iowa

EF 003 688

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

ED034384

SPACE INVENTORY AND UTILIZATION
PART I

F. E. Oliver
Director, Office of Financial Analysis
The University of Michigan

The University of Michigan is engaged in a continuing analysis of space utilization on a comprehensive institution-wide basis. The current record procedure is organized into a computer based system which began in early 1964. The first summary report was issued as of June 30, 1965 and a second report has just been completed as of June 30, 1967.

The Office of Financial Analysis is charged with responsibility for this work, and presently has two analysts assigned full-time who control and process input material for up-dating files in the Data Processing Center and who prepare from computer runs periodic summary reports to executive officers. In addition, these two staff members perform frequent analyses from these records in answer to questionnaires from outside agencies and special internal requests from departments and/or executive offices.

Prior to 1964, space utilization information was difficult to obtain and often incomplete. The Office of Institutional Research prepared studies of classroom use by classes, the Plant Department issued reports on utility distributions for certain building areas, and indirect cost rates were computed on area estimates. All of these and other space related studies were prepared from independent information. They are all now coordinated with the present space utilization records and system.

Some examples of earlier attempts at space records that have led to the present system, are as follows:

I. Chronological Building Development List

A. Typed listing in chronological order of entry; updated annually with a new sheet showing additions and deletions.

B. Prepared by Plant Department

1. began in 1930's

2. discontinued in 1960

C. Contained:

1. building name

2. year of acquisition

3. cubic feet

4. square feet

D. Uses:

1. general historical record for questions pertaining to space

II. Plant Fund Building Record

A. 5" x 8" card

B. Prepared by Office of Financial Analysis

1. Maintained currently, and reconciled to asset value for buildings in Accounting Department records.

2. Originated by Accounting Department in 1957-58.

C. Contains:

1. number

2. name

3. cost

4. location code

5. function code (one comprehensive code for entire building)

6. cubic feet

7. square feet

D. Uses:

1. reference source for summary information about buildings

2. indirect cost reimbursement rate annual computation (A-21)

3. Created and first used to answer USHEW questionnaire of 1957-58.

III. Building and Structures Statistical Record

A. Punched card record

B. Updated annually by Office of Financial Analysis and reconciled to asset value for buildings in Accounting Department records. Originated by Accounting Department in 1957-58.

C. Contains (for all buildings used by the University, owned or leased):

1. number

2. name

3. street address

4. dollar value

5. cubic feet

6. square feet

7. location code

8. function code

9. year of acquisition

10. condition code

11. type of construction code

12. accounting fund code

13. alpha sequence number

D. Uses - complete computer listings of all buildings and structures are prepared in the following sequences for the indicated users:

	Alpha	Building Number	Date of Acquisition	Function	Location
1. Internal Distribution:					
a. Executive officers	X				
b. Accounting department	X	X			
c. Plant operations	X	X			
d. Plant engineering	X	X			
e. Architect	X		X		
f. Campus planner	X	X	X	X	X
g. Insurance analyst	X	X			
h. Purchasing agent for rental properties	X	X			
i. Equipment control	X	X			
j. Research indirect cost office	X	X			
k. Mail service and telephone communications center	X		X		X

	Alpha	Building Number	Date of Acquisition	Function	Location
2. External distribution:					
a. City of Ann Arbor, fire and police	X				
b. D.O.D. audit	X				
c. State budget office	X				

A comprehensive description of our present space utilization record and system will be presented by the next speaker as Part II of this presentation.

SPACE INVENTORY AND UTILIZATION
PART II

Jerome J. Weston
Space Utilization Analyst
Office of Financial Analysis
The University of Michigan

INTRODUCTION

Over the past decade there has been a pronounced increase in the attention paid by college administrators and state and federal legislators to the utilization of physical facilities on our college campuses.

This increased attention is a direct result of: our spiraling enrollment figures, our expanded participation in the field of research and the general enlargement of the role of today's institutions of higher learning.

Mc George Bundy, President of the Ford Foundation, speaking to heads of some leading colleges and universities at a recent meeting of the American Council on Education spoke on "the dramatic need for new and larger resources in the colleges and universities of our country (and though this need is) ... so clear and so persuasive to me and to educators, (it) is not at all clear to all the people of our country - and not easily demonstrated to any skeptical or careful questioner. ... what is much more serious is that with the tools now available they cannot really prove their case. They simply do not have the facts and figures they need. Let me emphasize that I do not say that the facts and figures do not exist - I say only that they do not have them. They do not have them for the simple and fundamental reason that as a class neither colleges nor universities, public or private, large or small, old or young, have ever made it their business to learn and to tell the whole story of their resources and their obligations, their income and their expenses, their assets and their debts, in such a way that the public can fully and fairly judge their economic position."

Several years in advance of Mr. Bundy's observations, top administrators at The University of Michigan saw this coming need to know "the whole story." Part of this "story" was the increased need for information about institutional space and how it is used. In mid-1964 the Office of Financial Analysis was charged with the responsibility for conducting, and maintaining on a continuing basis, a comprehensive study of space utilization at the University.

Today the Office of Financial Analysis maintains records on space utilization for the entire university. At the present time we are concerned only with maintaining an inventory of space and its use.

Some statistics that may be of interest to you from our record as of June 30, 1967 are as follows:

1.	number of buildings	792
2.	asset value of buildings, 6/30/67	$195,375,658

3. gross square footage of buildings 14,205,653

4. number of rooms (including unassignable areas) 38,951

Our record contains detail by room of square footage, occupancy, function, periodicity of use, air-conditioned code, and class and enrollment detail if classes are taught. The entire record is controlled by and reconciled to the asset record of building values.

Gross square footage for each building is furnished by the Director of Plant Extension (Architect), in accordance with definitions established by the National Academy of Sciences - National Research Council and outlined in the publication "Classification of Building Areas."

Building blue-prints and individual room square footage measurements are prepared and furnished to us by the Director of Plant Extension (Engineering Services). All of this square footage information is furnished to this office on a continuous basis.

Information on occupancy, function, and periodicity of use is obtained from department heads through use of a special form sent to them periodically (see Appendix B). At present we do this at least once every two years, preferably in the fall term.

Our information is stored on magnetic tape and updated through use of punched cards. Our Data Processing Center is equipped with IBM 360-40 with tapes and disc. This whole procedure entails use of a systems man and a programmer from the Data Processing Center whenever work is involved affecting forms, reports design, or the tape record.

We are relatively new in this endeavor, having completed our first comprehensive departmental survey in March of 1965. During the fall of 1965 we updated the record as a by-product of participation in a state-wide space utilization survey in our thirteen state-supported institutions of higher education requested by the Governor.

The Michigan Council of State College Presidents has a committee on Space Utilization and Facilities working on a state-wide manual for space inventory and utilization procedures. This should be completed some time next year. We are working with this committee.

Creation of this space record did not occur overnight. We have had a punched-card record of building statistics since 1958. Accumulating the square-footage room-by-room has taken several years. It was completed in the summer of 1964, and is now maintained on a continuous basis.

PROCEDURE OUTLINE

I. Data Gathering

A. Physical Changes in Buildings, Rooms - Continuous

1. Types of Changes

a. New buildings constructed

b. Acquisition of existing buildings

c. Changes in existing buildings

(1) renovation and/or remodeling

(2) demolition

(3) additions

2. Information sources for changes

a. Attorneys' Office (leases and purchases)

b. Plant Engineering

c. Accounting Department (asset record)

d. Others

3. File maintenance of Space Master tape

a. Office of Financial Analysis site visit to obtain detail information

b. Coded by the Office of Financial Analysis for updating to Master tape. (See Appendix A for "Room Utilization Record.")

B. Departmental Survey - Every Two Years

1. "Departmental Update" form for each room is prepared by the Data Processing Center from the Space Master tape in early Fall. (See Appendix B for instructions, code definitions, and "Departmental Update" form.)

a. Prepared from last information on Master tape.

b. Department reviews and updates to report current status.

2. The Office of Financial Analysis audits, reviews, checks to controls, and codes "Departmental Update" forms as revised from departments, then sends forms to Data Processing Center to update Space Master tape.

II. Computer Reports - Space Inventory and Use (See Appendix C)

A. Building/Function Report (Detail and Summary)

B. Function Report

C. Department/Function Report

D. Department/Building Report (Detail and Summary)

E. Building Report/Room Type

F. Room Type/Building Report

III. Computer Reports - Teaching Room Utilization (See Appendix D)

A. Classroom and Teaching Lab. Utilization

B. Instructional Class Size Fit - Detail Listing

C. Instructional Class Size Fit - Matrix

D. Intensity of Instructional Room Use - Time of Day

1. All Instructional Rooms

2. By Room Type

3. By Building

4. By Room

E. Inventory of Instructional Rooms/Classes

IV. Programs

A. COBOL

1. File Maintenance

2. Departmental Update

B. IBM System 360/Report Program Generator

1. All Space Inventory and Use Reports (See II above).

2. Selective Building Inventory

3. Selective Teaching Room Inventory

C. Autocoder

1. All Teaching Room Utilization Reports (See III above).

V. Summary Report to Management

A. Space Inventory and Use

1. Total University Space, June 30, 1967

2. Total University Space by Location, June 30, 1967

3. Summary of Square Footage by Function, June 30, 1967

4. Summary of Auxiliary Activities Square Footage, June 30, 1967

5. Summary of Rooms by Type for All Buildings, June 30, 1967

6. Summary of Teaching Rooms, Fall, 1967

7. Summary of Teaching Rooms by School and College, Fall, 1967

8. Summary of Office Rooms, Fall, 1967

9. Summary of Library Space, Fall, 1967

B. Teaching Room Utilization

1. Percent of Possible Room Period Utilization, Based on 44 Hour Week, Classrooms and Teaching Laboratories, Fall, 1967

2. Percent of Possible Room Period Utilization, Based on 44 Hour Week, Classrooms and Teaching Laboratories, By School and College, Fall, 1967

3. Percent of Possible Student Stations Utilization, Classrooms and Teaching Laboratories, Fall, 1967

4. Percent of Possible Student Station Utilization, Classrooms and Teaching Laboratories, By School and College, Fall, 1967

SUMMARY

This is a comprehensive and somewhat sophisticated approach to detailed space use analysis. However, something of this nature is very much needed in today's management of complex universities. It should be emphasized here that at the present time we are concerned only with maintaining an inventory of space and its use. We are not yet involved in central scheduling, assignment, or administering standards.

Some examples of uses for information about space are listed below:

Administrative:

general campus or area planning with relation to population, enrollment, staff, and land area

space needs identification

capital budget planning and operations budget forecasts

budget performance statistics

internal indirect expense allocation studies

indirect cost reimbursement rate computations for sponsored contract and grant negotiations

insurance cost studies

special statistical analyses

answering questionnaires

general information

Academic:

per-student floor area

per-faculty member floor area

class size statistics

teaching loads

instructional costs

student costs

time use of space

class scheduling

departmental assignment and scheduling

efficiency of space use

setting of standards of space use

budget performance statistics

Physical properties:

planning and scheduling for remodeling, obsolescence, and new space

plant costs for operation and maintenance

plant management standards

budget performance statistics

space quality statistics

We hope this discussion has been informational. Should any of you want to visit our office to look into more detail, we would be glad to welcome you at any time, perhaps next year at the 1969 ACUMRC in Ann Arbor.

THE UNIVERSITY OF MICHIGAN
OFFICE OF FINANCIAL ANALYSIS

ROOM UTILIZATION RECORD

PLEASE TYPE OR PRINT

| I GENERAL INFORMATION | BLDG. NO. (1-4) | ROOM NO. (5-11) | BUILDING NAME (12-43) | | |

THE UNIVERSITY OF MICHIGAN

OFFICE OF FINANCIAL ANALYSIS

MEMO TO:

FROM: F. E. Oliver

SUBJECT: Space Inventory and Utilization

The attached computer listing represents the space assigned to your department as shown in our survey records. We solicit your assistance to update the data to the present.

We realize that there have been numberous shifts and adjustments that may have affected the space assigned to your department. Additionally, there may be internal factors that have altered the classification or the functional usage of rooms within your department. Consequently, we need your help in obtaining more currently accurate information.

We ask that your department complete the review and updating of this information in accordance with the attached instructions. The attached computer listing should be used as worksheets for posting any changes in printed information and for recording current information. Should you have questions that require assistance or interpretation, please contact this office and a representative will come to your office to answer questions or to assist you in completing the forms.

Your continued cooperation and assistance will be appreciated in this matter. Please return the listing to the Office of Financial Analysis, 3012 Administration Building as soon as you have completed the forms.

JJW:bg

Attachments

APPENDIX B-1

The University of Michigan
Office of Financial Analysis

INSTRUCTIONS FOR 1966-67 SPACE UTILIZATION SURVEY

The attached computer listing shows room data by department and building as last surveyed, and provides space for current updating of the data. Description lists of room types and function types are attached for reference.

The following items should be verified for current validity:

Department Name
Room Type
Air-conditioning (1=yes, 2=no)

The following items are data accumulated in our 1965 survey, and are listed as reference material to assist your completion of the balance of the form.

Hours Last Year - actual hours room was used for all functions as reported by departments during week of survey.

Function Last Year - name of function(s) for which room was used as reported by department during week of survey.

Occupancy Last Year - number of occupancy stations in the room, by type of occupant (standard capacity is number of occupancy stations for which room was originally designed; typical occupancy is number of occupancy stations for which room is setup during survey period).

The remaining items are to be completed with current data:

Hours This Year - indicate total hours that room is used for all functions for a week that is representative of the year as a whole (see note(1) below).

Function This Year - indicate name and function(s) and percentage for a week that is representative of the year as a whole (percents should total to 100).

Occupancy This Year - indicate number of occupancy stations by type and total (standard and typical) for a week that is representative of the year as a whole.

(1) If total hours of use for basic instruction type rooms (general classrooms, seminar rooms, lecture halls, auditoriums, teaching laboratories) exceed the hours represented by regularly scheduled classes, please indicate on the worksheet for each room in a few descriptive words names of the various instructional activities other than regularly scheduled classes. Examples are: workshop, independent study, conferences, faculty meetings, or other student or faculty instructional uses. It is felt that time use represented by regularly scheduled classes alone, is not sufficiently descriptive of the total instructional function in these spaces, and your assistance is needed to get as complete and descriptive data as possible.

The University of Michigan
Office of Financial Analysis

SPACE UTILIZATION SURVEY

ROOM TYPE CODE LIST

Alphabetical

010 Animal Quarters
020 Apartment - Efficiency, Suite
030 Apartment - One bedroom
040 Apartment - Two bedroom
050 Auditorium
070 Barber Shop
080 Cafeteria
090 Carrel
100 Classroom
110 Clinic
120 Conference
124 Control
130 Corridor
140 Counseling
150 Dark Room
160 Diagnosis
170 Dining or Serving
180 Dispensing
190 Drafting
191 Dressing
200 Elevator
210 Examining
211 Exhibition
220 Food Preparation
230 Garage
240 Greenhouse
250 Gymnasium
260 Janitor
270 Laboratory, Research
271 Laboratory, Teaching
272 Laboratory, Other
280 Laundry
290 Lecture Hall
300 Library
305 Living Room
309 Lobby, Porch
310 Locker
320 Lounge, TV Room
330 Lunchroom
340 Machine
350 Mailroom
360 Mechanical
370 Music Practice
380 Museum
385 Museum Research Collection
390 Office
400 Operating Room
410 Other (describe)
420 Patient Room
430 Patient Treatment
440 Press Box
441 Projection Room
445 Processing Room
450 Ramp (foot)
455 Ramp (parking)
460 Reading
469 Reception Hall (or Ballroom)
470 Recreation
480 Seminar
490 Sewing/Pressing
500 Shipping/Receiving
510 Shop
520 Shower
530 Sleeping
540 Stack
550 Stairs
560 Sterilizer
570 Storage
571 Store
580 Studio
590 Study
600 Swimming Pool
610 Theatre (or Ampitheatre)
620 Toilets (men)
630 Toilets (women)
640 Utility
650 Waiting
651 Wall Area (Construction)
660 X-ray

APPENDIX B-3

Instruction Type Rooms

050 Auditorium
100 Classroom (17-84 students)
110 Clinic
120 Conference
140 Counseling
250 Gymnasium
271 Laboratory (Teaching)
290 Lecture Hall (more than 84 students)
370 Music Practice
410 Other (describe)
480 Seminar (1-16 students)
580 Studio
610 Theatre

Research Type Rooms

010 Animal Quarters
110 Clinic
120 Conference
150 Dark Room
190 Drafting
240 Greenhouse
270 Laboratory (Research)
380 Museum
385 Museum Research Collection
390 Office
410 Other (describe)
510 Shop
560 Sterilizer
570 Storage
660 X-Ray

Library Type Rooms

090 Carrel
300 Library
390 Office
410 Other (describe)
460 Reading Room
540 Stack
570 Storage
590 Study

Student Centers and Residences Type Rooms

020 Apartment - Efficiency Suite
030 Apartment - One bedroom
040 Apartment - Two bedroom
070 Barber Shop
080 Cafeteria
140 Counseling
170 Dining Room
220 Food Preparation
230 Garage
280 Laundry
310 Locker
320 Lounge
330 Lunchroom
350 Mailroom
390 Office
410 Other (describe)
460 Reading
470 Recreation
490 Sewing/Pressing
500 Shipping/Receiving
520 Shower
530 Sleeping
570 Storage
590 Study

Unassignable Area Type Rooms

130 Corridor
200 Elevator
340 Machine
360 Mechanical
410 Other (describe)
455 Ramp (parking)
450 Ramp (foot)
520 Shower
550 Stairs
620 Toilets (Men)
630 Toilets (Women)

The University of Michigan
Office of Financial Analysis

SPACE UTILIZATION SURVEY

FUNCTION DEFINITIONS

These space function groups are designed to identify the utilization of space according to major function categories of significance to the University.

Space utilization is to be classified by function and not organizational unit. For example, a department may be considered as a research unit, but this should not prevent the space from being classified functionally as research, instruction, or any other functional category for which the space is used.

More than one function may apply to a single unit of space. Care should be taken to assure that all usage of space is considered and evaluated. Where multiple-function usage occurs, whether concurrently or at different times, the percent of time applicable to each function should be carefully estimated.

100 Instruction

This function includes for all schools and colleges the teaching activity, and related work such as: preparation and grading, academic counseling, and supervision of student teachers. This does not include the extension teaching activity (see Extension).

200 Research - Sponsored

Sponsored Research activities are made up of projects which are separately budgeted and funded by outside sponsors for the performance of research (as distinguished from teaching or training). These projects result from an agreement with the sponsor in the form of a contract, grant purchase order, or letter of authorization, and usually contain some restrictions and reporting requirements.

Sponsored research projects using space can be identified by the following examples: sponsored research account numbers 01000 through 09999, Institute for Social Research accounts, the research portion of the NIH general research support grants for the Medical School, School of Dentistry, and the School of Public Health, and applicable Expendable Restricted Fund accounts.

250 Research - University

This category includes all research activities supported by University funds. This includes General Fund research appropriations (i.e. Institute for Science and Technology, Botanical Gardens, Graduate School Faculty Research, Museums, etc.), gifts, endowment income and other University funds separately budgeted for research purposes, as well as departmental research financed through funds budgeted for instructional purposes.

300 Public Service

This category includes the activities of the following departments: University Relations, State-wide Education, Bureau of School Services, Broadcasting Services (radio and television), Alumni Records Office, and Audio-Visual Education Center (portion applicable to off-campus service). Also included are services performed by individual staff members for individuals, professional societies, civic groups, or other organizations not directly connected with the University.

400 Library

This category includes and is limited to the activities of the University Library and all of its divisional libraries, the School of Business Administration, Law School, William L. Clements, and the Michigan Historical Collections libraries.

500 Administration - Departmental

The local administration of all departmental and school or college activities should be included in this category. Deans and department heads, their assistants, faculty members where assigned, and office staff, are examples of departmental administrative personnel. Examples of departmental administrative activities are: supervision, long-range planning, personnel matters, budgeting, scheduling of space and personnel, committee assignments, assistance to student organizations, and planning and administration of academic curricula and teaching procedures as well as both sponsored and University research.

550 Administration - Research

This includes the administration and business functions separately organized to serve the research areas. This category is limited to the following: the Director of the Institute for Science and Technology and his staff, the Director of the Institute for Social Research and his administrative and business staff, the Director of the Office of Research Administration and his staff, and the sponsored research business activities.

570 Administration - General

General administration refers to the performance of the executive duties of the institution and includes the functions performed by general administrative officers and their staffs. This is limited to the offices of the Regents, the President, the several Vice-Presidents, the Secretary, and their immediate staffs.

600 Extension

This function should include only the space used by the Extension activities.

650 Instruction Services

This category includes the activities of Registration and Records, Admissions, University Press (publications distribution service, only), and Audio-Visual Education Center (portion applicable to campus service, only).

700 Student Service

The category includes the functions of the Office of Student Affairs, the International Center, Office of Religious Affairs, Health Service, and assigned counseling and placement activities.

APPENDIX B-4 (Continued)

750 Business Operation

Business operation refers to the activities and services of a general business nature which benefit or service all areas of the University. It includes: Accounting Department, Attorney's Office, Cashier's Office, Controller's Office, Office of Financial Analysis, Management Services, Investment Office, Personnel Office, Purchasing Department, Office of Service Enterprises, and the Insurance Office.

800 Plant Operation

This category includes the services of plant operation and maintenance, University Architect, and plant extension. Space in all campus buildings designated as janitorial closets, ventilation or mechanical rooms, telephone or other equipment rooms, etc., should be included in this category as well as the space of buildings primarily assigned for such plant services.

850 Heating and Utilities

This category includes spaces for the heating and utilities services to buildings. Room designated for heating or utilities services in all buildings should be included in this category as well as the space of buildings primarily assigned for heating and utility service.

900 Auxiliary Activities

The following is a list of activities to be identified in this category: Animal Care Unit, Auditorium Rental, Automobile, Bus & Truck Operations, Data Processing, Dearborn Campus Book Store, Food Service, Laundry, Photographic Services, Printing and Binding, University Hospitals, Student Residences, Michigan League and Michigan Union, Intercollegiate Athletics, University Press (sales functions, only), Student Publications, Parking, and Airport Operations.

950 Agency Organizations

This category includes space occupied by the Alumni Association, student organizations, and agencies not directly a part of the University.

990 Unassigned

This category includes any temporarily unused areas due to repairs, remodeling, renovations, or excess capacity (do not indicate hours of usage for this category).

999 Unassignable

Unassignable space includes corridors, ramps, stairs, elevator shafts, public lounges, rest rooms, toilets, and other areas which are not restricted to any single function in the building (do not indicate hours of usage for this category).

The University of Michigan
Office of Financial Analysis

DEPARTMENTAL UPDATE FORM

DEPT NO 1045 — DEPARTMENT NAME: JOURNALISM

BLDG NO 0197 — BUILDING NAME: ANGELL HALL ADDITION-MASON HALL

ROOM NUMBER	TYPE CODE	ROOM TYPE	SQ FT	AC	HRS LAST YEAR	HRS THIS YEAR	LAST YEAR FC	LAST YEAR FUNCTION	THIS YEAR FUNCTION	THIS YEAR PCT	LAST YEAR TYPE	LAST YEAR STD CAP	LAST YEAR TYP OCC	THIS YEAR TYPE	THIS YEAR STD CAP	THIS YEAR TYP OCC
1435	100	CLASSROOM	317	2	27	---	100	INSTRUCT	--------	---	STUDENT	23	20	--------	----	----
											TEACHING	1	1	--------	----	----
										100	TOTAL	24	21		-----	-----
1439	100	CLASSROOM	663	2	40	---	100	INSTRUCT	--------	---	STUDENT	30	30	--------	----	----
											TEACHING	1	1	--------	----	----
										100	TOTAL	31	31		-----	-----
1440	270	LABORATORY	317	2	40	---	100	INSTRUCT	--------	---	STUDENT	12	11	--------	----	----
										100	TOTAL	12	11		-----	-----
1442	270	LABORATORY	317	2	40	---	100	INSTRUCT	--------	---	STUDENT	12	12	--------	----	----
							250	UNIV RES	--------	---	TEACHING	1	1	--------	----	----
										100	TOTAL	13	13		-----	-----
1443	140	CONFERENCE	309	2	40	---	100	INSTRUCT	--------	---	STUDENT	27	27	--------	----	----
							950	AGNCY ORG	--------	---	TEACHING	1	1	--------	----	----
							500	DEP ADMIN	--------	---						
							300	PUB SERV	--------	---						
										100	TOTAL	28	28		-----	-----
1444	100	CLASSROOM	317	2	40	---	100	INSTRUCT	--------	---	STUDENT	13	13	--------	----	----
											TEACHING	1	1	--------	----	----
										100	TOTAL	14	14		-----	-----
1446	390	OFFICE	181	2	40	---	100	INSTRUCT	--------	---	STUDENT	19	19	--------	----	----

APPENDIX B-5

The University of Michigan
Office of Financial Analysis

SPACE INVENTORY AND USE REPORTS

A. Building/Function Report /DETAIL & SUMMARY

TOTALS:	MAJOR = Building	***	Sequence	ROOM NO.
	INTER = Function	**		W/DEPT
	MINOR = Department	*		

B. Function Report /SUMMARY

TOTALS:	MAJOR = Function	***	Sequence	BLDG
	INTER = Department	**		W/DEPT
	MINOR = Building	*		W/FUNC

C. Department/Function Report /SUMMARY

TOTALS:	MAJOR = Department	**	Sequence	FUNC
	MINOR = Function	*		W/DEPT

D. Department/Building Report /DETAIL & SUMMARY

TOTALS:	MAJOR = Department	**	Sequence	ROOM NO.
	MINOR = Building	*		W/BLDG
				W/DEPT

E. Building Report/Room Type /DETAIL

TOTALS:	MAJOR = Building	**	Sequence	ROOM NO.
	MINOR = Room Type	*		W/DEPT
				W/ROOM TYPE
				W/BLDG

F. Room Type/Building Report /SUMMARY

TOTALS:	MAJOR = Room Type	**	Sequence	ROOM TYPE
	MINOR = Building	*		W/BLDG

OFFICE OF FINANCIAL ANALYSIS

1967 SPACE STUDY-REPORT #1-BUILDING

NATURAL RESOURCES BUILDING

BLDG NO.	FUNC CODE	DEPT CODE	ROOM NO.	ROOM TYPE	A C	ROOM SQ FT	ROOM HRS	FUNC PCT	FUNC HRS	FUNC SQ FT	
0189	100	01361	00535	390	2	220	80	100	80	220	
0189	100	01361	00536	270	2	280	70	70	49	196	
0189	100	01361	00539	390	2	119	50	100	50	119	
0189	100	01361	00540	270	2	298	70	70	49	209	
0189	100	01361	00541	390	2	122	45	100	45	122	
0189	100	01361	00542	570	2	76	40	100	40	76	
0189	100	01361	00550A	570	2	70	40	100	40	70	
0189	100	01361	00550A	570	2	38	40	100	40	38	
0189	100	01361	00568	270	2	720	90	20	18	144	
0189	100	01361	00572	570	2	182	40	100	40	182	
0189	100	01361								24963	*
0189	100									36961	**
0189	200	01361	00130	270	2	367	55	100	55	367	
0189	200	01361	00133	270	2	472	40	100	40	472	
0189	200	01361	00139	271	2	634	84	50	42	317	
0189	200	01361	00139A	271	2	1116	84	40	33	447	
0189	200	01361	00139B	270	2	165	20	50	10	82	
0189	200	01361	00142	270	2	373	70	100	70	373	
0189	200	01361	00144	570	2	92	40	100	40	92	
0189	200	01361								2150	*
0189	200									2150	**
0189	250	01361	1024A	270	2	295	80	100	80	295	
0189	250	01361	1520	271	2	1020	35	50	18	510	
0189	250	01361	2064	270	2	384	80	100	80	384	
0189	250	01361	2503	270	2	267	40	100	40	267	
0189	250	01361	2545	390	2	228	40	100	40	228	
0189	250	01361	2552	270	2	297	30	100	30	297	
0189	250	01361	2576	270	2	314	50	100	50	314	
0189	250	01361	2577	390	2	102	70	100	70	102	
0189	250	01361	00139	271	2	634	84	50	42	317	
0189	250	01361	00139A	271	2	1118	84	45	39	504	
0189	250	01361	00139B	270	2	165	20	50	10	83	
0189	250	01361	00140	270	2	387	70	100	70	387	
0189	250	01361	00536	270	2	280	70	30	21	84	
0189	250	01361	00540	270	2	298	70	30	21	89	
0189	250	01361	00556	270	2	296	20	100	20	296	
0189	250	01361	00596	010	2	245	168	100	168	245	

	BUILDING NAME	BLDG NO	FUNC CODE	DEPT CODE	FUNC SQ FT
*	BOHL RES CEN FOR HUMAN GENETICS	0210	800	2500	1810
**	BOHL RES CEN FOR HUMAN GENETICS	0210	800		1810
*	BOHL RES CEN FOR HUMAN GENETICS	0210	950	1228	1488
**	BOHL RES CEN FOR HUMAN GENETICS	0210	950		1488
*	BOHL RES CEN FOR HUMAN GENETICS	0210	959	1000	4844
**	BOHL RES CEN FOR HUMAN GENETICS	0210	959		4844
***	BOHL RES CEN FOR HUMAN GENETICS	0210			16146
*	NATURAL SCIENCE	0211	100	1005	6379
*	NATURAL SCIENCE	0211	100	1010	16805
*	NATURAL SCIENCE	0211	100	1037	16494
*	NATURAL SCIENCE	0211	100	1060	863
*	NATURAL SCIENCE	0211	100	1093	25430
**	NATURAL SCIENCE	0211	100		65971
*	NATURAL SCIENCE	0211	200	1010	5303
*	NATURAL SCIENCE	0211	200	1037	2848
*	NATURAL SCIENCE	0211	200	1093	13399
**	NATURAL SCIENCE	0211	200		21550
*	NATURAL SCIENCE	0211	250	1010	7007
*	NATURAL SCIENCE	0211	250	1037	2442
*	NATURAL SCIENCE	0211	250	1093	2723
**	NATURAL SCIENCE	0211	250		12172
*	NATURAL SCIENCE	0211	300	1010	118
*	NATURAL SCIENCE	0211	300	1037	2525
**	NATURAL SCIENCE	0211	300		2643
*	NATURAL SCIENCE	0211	400	1560	7735
**	NATURAL SCIENCE	0211	400		7735
*	NATURAL SCIENCE	0211	500	1010	3226
*	NATURAL SCIENCE	0211	500	1037	1912
*	NATURAL SCIENCE	0211	500	1093	1874
**	NATURAL SCIENCE	0211	500		7012
*	NATURAL SCIENCE	0211	800	2500	4709
**	NATURAL SCIENCE	0211	800		4709
*	NATURAL SCIENCE	0211	959	1000	57080
**	NATURAL SCIENCE	0211	959		57080
***	NATURAL SCIENCE	0211			178872
*	SIMPSON THOMAS H MEMORIAL INST	0212	200	1232	3862
**	SIMPSON THOMAS H MEMORIAL INST	0212	200		3862
*	SIMPSON THOMAS H MEMORIAL INST	0212	250	1232	1089
**	SIMPSON THOMAS H MEMORIAL INST	0212	250		1089
*	SIMPSON THOMAS H MEMORIAL INST	0212	500	1232	903
**	SIMPSON THOMAS H MEMORIAL INST	0212	500		903
*	SIMPSON THOMAS H MEMORIAL INST	0212	800	2500	1456
**	SIMPSON THOMAS H MEMORIAL INST	0212	800		1456
*	SIMPSON THOMAS H MEMORIAL INST	0212	850	2500	622
**	SIMPSON THOMAS H MEMORIAL INST	0212	850		622

APPENDIX C-3

OFFICE OF FINANCIAL ANALYSIS
1967 SPACE STUDY-REPORT #2-SUMMARY OF FUNCTIONS

	FUNC CODE	DEPT CODE	BLDG NO	FUNC SQ FT	PAGE
*	400	1512	0156	11049	
**	400	1512		11049	
*	400	1524	0159	13094	
**	400	1524		13094	
*	400	1536	0184	56003	
**	400	1536		56003	
*	400	1548	0172	1928	
**	400	1548		1928	
*	400	1560	0152	4748	
*	400	1560	0156	3739	
*	400	1560	0158	4446	
*	400	1560	0162	2663	
*	400	1560	0165	6970	
*	400	1560	0170	3086	
*	400	1560	0172	2719	
*	400	1560	0185	136087	
*	400	1560	0193	6158	
*	400	1560	0199	29779	
*	400	1560	0204	2327	
*	400	1560	0211	7735	
*	400	1560	0216	2815	
*	400	1560	0227	91984	
*	400	1560	0402	14348	
*	400	1560	0404	1145	
*	400	1560	0435	2746	
*	400	1560	0440	12217	
*	400	1560	1012	11854	
*	400	1560	1501	4278	
**	400	1560		351844	
***	400			439401	
*	500	1000	0198	600	
*	500	1000	0214	11	
**	500	1000		611	
*	500	1001	0152	7169	
**	500	1001		7169	
*	500	1003	0183	224	
**	500	1003		224	
*	500	1004	0152	562	
*	500	1004	0213	313	
**	500	1004		875	
*	500	1007	0165	1702	
*	500	1007	0198	44	
**	500	1007		1746	
*	500	1010	0211	3226	
**	500	1010		3226	
*	500	1013	0158	2678	
**	500	1013		2678	

APPENDIX C-4

OFFICE OF FINANCIAL ANALYSIS
1967 SPACE STUDY SUMMARY OF DEPARTMENTS

	FUNC CODE	DEPT CODE	SQ FT
*	300	1010	118
*	500	1010	3220
**		1010	35818
*	100	1013	57084
*	200	1013	10128
*	250	1013	15053
*	500	1013	2678
*	700	1013	116
*	990	1013	502
**		1013	92161
*	100	1016	2217
*	250	1016	305
*	300	1016	81
*	500	1016	707
**		1016	3310
*	100	1018	2532
*	200	1018	1042
*	250	1018	1748
*	500	1018	690
**		1018	6012
*	100	1019	6647
*	200	1019	1148
*	250	1019	1192
*	300	1019	47
*	400	1019	458
*	500	1019	1556
*	990	1019	271
**		1019	11319
*		1025	139
*	100	1025	10548
*	200	1025	51
*	250	1025	1401
*	300	1025	47
*	400	1025	808
*	500	1025	1897
**		1025	14891
*	100	1028	2689
*	500	1028	364
**		1028	3053
*	100	1029	310
*	200	1029	127

APPENDIX C-5

REPORT #3 DEPARTMENTAL INVENTORY OF ROOMS

DEPT CODE	BLDG NO.	ROOM NO.	ROOM TYPE	A C	SQUARE FEET	ROOM HRS	STUDENT CAP	STUDENT OCC	TEACH CAP	TEACH OCC	RESEARCH CAP	RESEARCH OCC	ADMIN CAP	ADMIN OCC	OTHER CAP	OTHER OCC	TOTAL CAP	TOTAL OCC	FUNCTIONS CD	FUNCTIONS PCT	FUNCTIONS HRS	FUNCTIONS SQ FT
1093	0211	1084	150	1	90	50	1	1									1	1	100	100	50	90
1093	0211	1084A	270	1	98	70	1	1									1	1	100	100	70	98
1093	0211	1087	150	2	61	35													100	50	17	30
																			250	50	18	31
1093	0211	1088	271	2	541	40	12	12	2	2							14	14	100	100	40	541
1093	0211	1091	270	2	341	50	3	4									3	4	100	100	50	341
1093	0211	1092	270	2	259	50	2	4									2	4	100	100	50	259
1093	0211	1093	271	2	518	40	12	12	2	2							14	14	100	100	40	518
1093	0211	1095	271	2	528	40	12	12	2	2							14	14	100	100	40	528
1093	0211	1096	270	1	259	65	2	2	1	1							3	3	100	100	65	259
1093	0211	1098	150	2	119	60					1	1					1	1	200	100	60	119
1093	0211	1098A	570	2	45	60													200	100	60	45
1093	0211	1109	270	2	735	60	6	6	1	2	1	2					8	10	100	33	19	242
																			200	67	41	493
1093	0211	1109B	570	1	224	60													100	33	19	73
																			200	67	41	151
1093	0211	1109C	570	1	192	60													100	33	19	63
																			200	67	41	129
1093	0211	1109D	570	1	112	60													100	33	19	36
																			200	67	41	76
1093	0211	1111	271	2	506	36	12	12	2	2							14	14	100	100	36	506
1093	0211	1115	270	2	227	45					2	5					2	5	200	100	45	227
1093	0211	1115A	570	2	18	45													200	100	45	18
1093	0211	1116	180	2	693	50									2	2	2	2	100	50	25	346
																			200	50	25	347
1093	0211	1116A	180	2	63	50									1	1	1	1	100	50	25	31
																			200	50	25	32
1093	0211	1117	270	2	253	40	2	2									2	2	100	100	40	253
1093	0211	1121	270	2	395	65			1	1	2	2					3	3	200	50	32	197
																			250	50	33	198
1093	0211	1121A	390	2	87	65			1	1							1	1	200	50	32	43
																			250	50	33	44
1093	0211	1122A	510	2	110	40									1	1	1	1	100	100	40	110
1093	0211	1123	270	2	253	60	2	5									2	5	100	100	60	253
1093	0211	1124	570	2	117	60													100	100	60	117
1093	0211	1124B	570	2	14	60													100	100	60	14
1093	0211	1125	270	2	253	60	2	5									2	5	100	100	60	253
1093	0211	1126	570	2	474	60													100	100	60	474
1093	0211	1127	270	2	253	60					2	5					2	5	250	100	60	253
1093	0211	1129	270	2	230	45					2	5					2	5	100	50	22	115
																			250	50	23	115
1093	0211	1132	350	2	30	50													500	100	50	30
1093	0211	1200	510	2	341	40									1	4	1	4	100	50	20	170
																			250	50	20	171
1093	0211	1206	010	2	292	168									1	1	1	1	100	50	84	146

10-09-67 OFFICE OF FINANCIAL ANALYSIS PAGE 1

REPORT #3 DEPARTMENTAL INVENTORY OF ROOMS

DEPT CODE	BLDG NO.	SQUARE FEET	STUDENT CAP	STUDENT OCC	TEACH CAP	TEACH OCC	RESEARCH CAP	RESEARCH OCC	ADMIN CAP	ADMIN OCC	OTHER CAP	OTHER OCC	TOTAL CAP	TOTAL OCC		
* 1075	0152	1,349	15	15	5	5							20	20	# ROOMS	5
* 1075	0175	7,908	1	1	56	57	25	28	26	27	42	44	150	157	# ROOMS	53
* 1075	0197	15,986	93	93	21	21	145	148	7	8	32	32	298	302	# ROOMS	120
* 1075	0209	10,962					47	63	2	2			49	65	# ROOMS	40
* 1075	0240	1,946	2	1			23	23				1	25	25	# ROOMS	20
* 1075	0279	532	4	4	1	1							5	5	# ROOMS	2
* 1075	0403	366	8	8			4	4					12	12	# ROOMS	3
* 1075	0834	1,439	25	25	1	1			1	1			27	27	# ROOMS	12
** 1075		40,488	148	147	84	85	244	266	36	38	74	77	586	613	# ROOMS	255

OFFICE OF FINANCIAL ANALYSIS
1967 SPACE STUDY-DETAIL REPORT #4-BY BUILDING

BLDG NO.	RM TYP	DEPT CODE	ROOM NO.	A C	ROOM SQ FT	ROOM HRS	STUDENT CAP	STUDENT OCC	TEACHING CAP	TEACHING OCC	RESEARCH CAP	RESEARCH OCC	ADMIN CAP	ADMIN OCC	OTHER CAP	OTHER OCC	TOTAL CAPCTY	TOTAL OCCPCY
162	260	2500	0124	2	143	3												
162	260	2500	0124A	2	135	3												
162	260	2500	0126J	2	20	3												
162	260	2500	0207A	2	5	3												
162	260	2500	1501	2	145	3												
162	260	2500	2003A	2	12	3												
162	260	2500	3007A	2	16	3												
* NO. OF ROOMS			7		476													
162	270	1324	0102	2	536	70	2	2			2	2	1	1			5	5
162	270	1324	0104	2	266	60					3	3					3	3
162	270	1324	0108	2	340	60	2	2	3	3	3	3	1	1			9	9
162	270	1324	0110	2	709	50					4	4					4	4
162	270	1324	0110A	2	770	50					3	3					3	3
162	270	1324	0113	1	136	50					3	3					3	3
162	270	1324	0113A	1	94	50					1	1					1	1
162	270	1324	0113B	1	39	50					1	1					1	1
162	270	1324	0115	1	273	40					2	3					2	3
162	270	1324	0118	2	357	50					3	3					3	3
162	270	1324	0118D	2	192	50					2	2					2	2
162	270	1324	0119A	2	32	50									1	2	1	2
162	270	1324	0121	2	465	50					1	3			5	15	6	18
162	270	1324	0125	1	179	5					1	1					1	1
162	270	1324	0127	2	126	40					2	2					2	2
162	270	1324	0214	2	2767	25	97	80	6	6							103	86
162	270	1324	0216	2	294	20	97	80									97	80
162	270	1324	0217	2	453	60	6	28	1	1	2	2			1	1	10	32
162	270	1324	0221A	1	371	40		2							2	2	2	4
162	270	1324	0221B	2	795	68	50	90		2							50	92
162	270	1324	0225	2	2304	44	85	85									85	85
162	270	1324	0308	2	120	40	4	4	1	1							5	5
162	270	1324	0322	2	315	44	10	11	2	4							12	15
162	270	1324	1008	2	446	50				1					1	3	1	4
162	270	1324	1526	2	363	40	2	4	2	2					1	1	5	7
162	270	1324	2024A	2	220	44									1	1	1	1
162	270	1324	2030	2	552	49							1	1	1	2	2	3
162	270	1324	2508	2	147	40	6	8									6	8
162	270	1324	2519	2	126	32	4	15									4	15
162	270	1324	3004	2	402	40	8	7						1		1	8	9
162	270	1324	3006	2	108	31	8	4	1	1							9	5
162	270	1324	3031	2	398	50	16	18	4	4							20	22
162	270	1324	3035	2	217	50	16	18	4	4							20	22
162	270	1324	3505	2	145	40	4	4	1	1							5	5
162	270	1324	3508B	2	28	38	1	1									1	1
162	270	1324	3515	2	563	60	14	14	4	4					6	6	24	24
162	270	1324	C08021X	2	732	60	17	20	1	1							18	21
* NO. OF ROOMS			37		16380		449	497	30	35	33	36	3	4	19	34	534	606
162	280	1324	0112	2	55	40												
* NO. OF ROOMS			1		55													
162	290	1324	0210	2	1628	25	100	97	1	1							101	98
162	290	1324	0310	2	834	24	100	97	1	1							101	98
* NO. OF ROOMS			2		2462		200	194	2	2							202	196
162	309	1000	C08002X	2	1331													
162	309	1000	C01005X	2	157													
162	309	1000	C01013X	2	51													

APPENDIX C-8

	ROOM TYPE	BLDG NO.	ROOM SQ FT	STUDENT CAP	STUDENT OCC	TEACHING CAP	TEACHING OCC	RESEARCH CAP	RESEARCH OCC	ADMIN CAP	ADMIN OCC	OTHER CAP	OTHER OCC	TOTAL CAPCTY	TOTAL OCCPCY
1 ROOMS	* 120	54	1029	15	15									15	15
1 ROOMS	* 120	55	209	25	25									25	25
1 ROOMS	* 120	60	220	16	16									16	16
1 ROOMS	* 120	63	150									6	6	6	6
3 ROOMS	* 120	66	1630	2	2							5	5	7	7
2 ROOMS	* 120	100	1460					90	75			35	30	125	105
1 ROOMS	* 120	101	708	7	7	1	1	50	50					58	58
1 ROOMS	* 120	105	610	40	20					10				50	20
21 ROOMS	* 120	120	13078									657		657	
1 ROOMS	* 120	140	298					10	10					10	10
14 ROOMS	* 120	145	4585												
5 ROOMS	* 120	150	2815									99	64	99	64
2 ROOMS	* 120	152	1148							50	30	12	12	62	42
11 ROOMS	* 120	156	2922	43	36	2	2					5	6	50	44
1 ROOMS	* 120	158	570			28	7							28	7
2 ROOMS	* 120	165	728					12	12	40	40			52	52
1 ROOMS	* 120	166	257	6	6			8	8					14	14
10 ROOMS	* 120	167	1243	20	20	5	5			8	8	12	12	45	45
2 ROOMS	* 120	170	512			3	3			24	24			27	27
5 ROOMS	* 120	172	3520									94	116	94	116
1 ROOMS	* 120	173	292			10	10							10	10
5 ROOMS	* 120	175	1155			30	30			40	34			70	44
1 ROOMS	* 120	176	487									2	2	2	2
2 ROOMS	* 120	179	443									4	2	4	2
2 ROOMS	* 120	182	968			12	12	55	35					67	47
1 ROOMS	* 120	183	535	20	20									20	20
1 ROOMS	* 120	184	514			10	10							10	10
1 ROOMS	* 120	185	2908	12	10							2	2	14	12
2 ROOMS	* 120	186	501	22	22									22	22
2 ROOMS	* 120	188	908			28	30							28	30
2 ROOMS	* 120	189	796	14	14					35	20			49	34
9 ROOMS	* 120	190	3621	143	143	19	19	14	14	12	10	50	40	238	226
6 ROOMS	* 120	191	10672									570	380	570	380
1 ROOMS	* 120	193	409									20	15	20	15
1 ROOMS	* 120	196	208			10	10							10	10
2 ROOMS	* 120	197	671	47	47	2	2							49	49
1 ROOMS	* 120	201	560			15	15							15	15
3 ROOMS	* 120	204	856			4	4	3	3	21	21			28	28
1 ROOMS	* 120	209	428					4	8					4	8
2 ROOMS	* 120	211	924			18	18			2	2	35	30	55	50
1 ROOMS	* 120	212	213					8	8	2	2			10	10
1 ROOMS	* 120	214	323									18	18	18	18
25 ROOMS	* 120	215	5633	397	470							28	17	425	487
3 ROOMS	* 120	221	1785			23	23					3	3	26	26
1 ROOMS	* 120	222	235							12	12			12	12
1 ROOMS	* 120	226	269			10	10							10	10
1 ROOMS	* 120	230	352							6	6			6	6
3 ROOMS	* 120	235	719					4	4					4	4
3 ROOMS	* 120	302	1431												
24 ROOMS	* 120	306	6962							4	4			4	4
5 ROOMS	* 120	307	1033												
9 ROOMS	* 120	309	844												
1 ROOMS	* 120	400	341	20	20	1	1							21	21
2 ROOMS	* 120	403	1176					45	30					45	30

APPENDIX C-9

APPENDIX D-1

O F A CLASSROOM AND TEACHING LAB UTILIZATION ROOM TOTALS

BUILDING NAME	BLDG NO.	ROOM NO.	DIV CRS CLS NO.	STDTS	BEG HR	END HR	DURA	DAY OF WK M T W TH F S	ROOM PDS	CR	CONTACT HOURS	CR HRS	TYPE CD	NET SQ FT	NO. STA	CAPY
UNIVERSIT	0221	4001	202 301 004	43	0900	1000	1.0	T TH	2.0	02	86.00	86	11	638	30	31
UNIVERSIT	0221	4001	202 301 005	33	1100	1200	1.0	M W	2.0	02	66.00	66	11	638	30	31
UNIVERSIT	0221	4001	202 330 002	50	1100	1200	1.0	T TH	2.0	02	100.00	101	11	638	30	31
UNIVERSIT	0221	4001	202 705 001	35	0900	1000	1.0	M W F	3.0	03	105.00	103	11	638	30	31
UNIVERSIT	0221	4001	206 300 002	31	0800	0900	1.0	M W F	3.0	03	93.00	93	11	638	30	31
UNIVERSIT	0221	4001	206 300 005	43	1000	1100	1.0	M W F	3.0	03	129.00	126	11	638	30	31
UNIVERSIT	0221	4001	206 300 014	33	1300	1400	1.0	M W F	3.0	03	99.00	99	11	638	30	31
UNIVERSIT	0221	4001	206 300 016	37	1400	1500	1.0	M W F	3.0	03	111.00	111	11	638	30	31
UNIVERSIT	0221	4001	206 390 002	38	1900	2100	2.0	T	2.0	02	76.00	94	11	638	30	31
UNIVERSIT	0221	4001	206 600 001	16	1000	1100	1.0	T TH	2.0	02	32.00	32	11	638	30	31
UNIVERSIT	0221	4001	206 600 002	20	1900	2200	3.0	TH	3.0	03	60.00	59	11	638	30	31
UNIVERSIT	0221	4001	208 495 001	24	1400	1500	1.0	T TH	2.0	02	48.00	48	11	638	30	31
UNIVERSIT	0221	4001	208 532 001	34	0900	1000	1.0	T TH	2.0	02	68.00	68	11	638	30	31
UNIVERSIT	0221	4001	208 532 002	22	1000	1200	2.0	S	2.0	02	44.00	44	11	638	30	31
UNIVERSIT	0221	4001	210 560 001	7	1600	1800	2.0	TH	2.0	02	14.00	14	11	638	30	31
UNIVERSIT	0221	4001	210 561 001	1	1600	1800	2.0	W	2.0	02	2.00	2	11	638	30	31
UNIVERSIT	0221	4001	218 627 001	21	1600	1800	2.0	M	2.0	02	42.00	42	11	638	30	31

BUILDING NAME	BLDG NO.	ROOM NO.	ROOM TYPE CODE	SQ. FT.	STU STA	RM PDS OF USE PER RM PER WK	STU STA USED PER WK	% OF RM PD USE PER WK	AVG STU STA USED PER HR	% OF STU STA USED PER HR	POSS STU STA PER WK	% OF POSS S STA USE PER WK	POSS STU STA FOR HRS USED	% OF POSS S ST USE/ HRS USED	SQ FT PER CONT HOUR	AVG SQ FT PER STU STA
UNIVERSIT	0221	4001	11	638	30	40.0	1175.0	90.9	29.4	98.0	1320	89.0	1200.0	97.9	.54	21.27

THE UNIVERSITY OF MICHIGAN 1817

SCH/COLL BUS ADMIN

ROOM NO.	BLDG NAME	BLDG NO.	DIV	DPS	CLS	NO. STUD	HOUR BEG	HOUR END	DAY OF WEEK M	T	W	H	F	S	NO CR	CONTACT HOURS	CREDIT HOURS	TYPE CODE	NET SQ FT	NO. STA.	CAPY	COLL CODE
0069	BUSINESS	0156	045	705	001	16	1330	1500		T		H			3	48.00	48	11	541	17	18	B
0069	BUSINESS	0156	045	712	001	5	1500	1630	M		W				3	15.00	15	11	541	17	18	B
0069	BUSINESS	0156	048	450	001	19	0800	0900	M		W		F		3	57.00	57	11	541	17	18	B
0069	BUSINESS	0156	048	450	002	18	0900	1000	M		W		F		3	54.00	54	11	541	17	18	B
0069	BUSINESS	0156	048	450	003	19	1000	1100	M		W		F		3	57.00	57	11	541	17	18	B
0069	BUSINESS	0156	060	504	001	16	1300	1500			W				1	32.00	16	11	541	17	18	B
0071	BUSINESS	0156	048	450	005	7	0800	1200		T						28.00		11	561	17	18	B
0071	BUSINESS	0156	048	455	001	15	1100	1200	M		W		F		3	45.00	45	11	561	17	18	B
0071	BUSINESS	0156	048	555	001	14	0900	1000	M		W		F		3	42.00	42	11	561	17	18	B
0071	BUSINESS	0156	048	555	002	13	1000	1100	M		W		F		3	39.00	39	11	561	17	18	B
0071	BUSINESS	0156	052	702	001	9	1500	1700		T					2	18.00	18	11	561	17	18	B
0071	BUSINESS	0156	075	513	004	5	1600	1700			W				1	5.00	5	11	561	17	18	B
0071	BUSINESS	0156	075	514	003	6	1600	1700	M			H				12.00		11	561	17	18	B
0071	BUSINESS	0156	085	483	001	21	1300	1500		T					2	42.00	42	11	561	17	18	B
0372	BUSINESS	0156	065	300	002	35	1000	1100			W		F			70.00		11	854	30	31	B
0372	BUSINESS	0156	070	311	001	17	1400	1500	M		W		F		3	51.00	51	11	854	30	31	B
0372	BUSINESS	0156	070	511	001	19	0830	1000		T		H			3	57.00	57	11	854	30	31	B
0372	BUSINESS	0156	095	300	001	32	0900	1000	M		W		F		3	96.00	96	11	854	30	31	B
0064	BUSINESS	0156	045	305	001	31	1400	1500	M		W		F		3	93.00	93	11	1058	49	50	B
0064	BUSINESS	0156	055	301	001	35	0900	1000	M		W		F		3	105.00	105	11	1058	49	50	B
0064	BUSINESS	0156	055	610	001	17	1100	1200	M		W		F		3	51.00	51	11	1058	49	50	B
0064	BUSINESS	0156	075	310	001	40	1100	1200		T		H			2	80.00	80	11	1058	49	50	B
0064	BUSINESS	0156	075	513	001	4	1600	1700			W				1	4.00	4	11	1058	49	50	B
0065	BUSINESS	0156	055	300	002	48	0900	1000	M		W		F		3	144.00	144	11	868	49	50	B
0065	BUSINESS	0156	070	513	001	23	1330	1500		T		H			3	69.00	69	11	868	49	50	B
0065	BUSINESS	0156	070	524	001	31	0830	1000		T		H			3	93.00	93	11	868	49	50	B
0065	BUSINESS	0156	075	513	002	5	1600	1700			W				1	5.00	5	11	868	49	50	B
0065	BUSINESS	0156	080	501	001	44	1000	1100	M		W		F		3	132.00	132	11	868	49	50	B
0065	BUSINESS	0156	080	501	002	30	1100	1200	M		W		F		3	90.00	90	11	868	49	50	B
0065	BUSINESS	0156	095	501	001	29	1300	1400	M		W		F		3	87.00	87	11	868	49	50	B
0065	BUSINESS	0156	095	590	001	15	1300	1400	M		W		F		3	45.00	45	11	868	49	50	B
0070	BUSINESS	0156	048	450	004	7	1200	1300		T						7.00		11	1056	49	50	B
0070	BUSINESS	0156	055	301	002	27	1400	1500	M		W		F		3	81.00	81	11	1056	49	50	B
0070	BUSINESS	0156	055	500	002	49	0800	0900			W		F			98.00		11	1056	49	50	B
0070	BUSINESS	0156	055	500	003	31	0900	1000			W		F			62.00		11	1056	49	50	B
0070	BUSINESS	0156	055	500	004	26	1000	1100			W		F			52.00		11	1056	49	50	B
0070	BUSINESS	0156	055	501	001	48	1100	1200	M		W		F		3	144.00	144	11	1056	49	50	B
0070	BUSINESS	0156	075	513	003	5	1600	1700			W				1	5.00	5	11	1056	49	50	B
0070	BUSINESS	0156	080	300	003	19	1000	1100		T		H		S	3	57.00	57	11	1056	49	50	B
0070	BUSINESS	0156	095	612	001	2	1400	1530		T		H			3	6.00	6	11	1056	49	50	B
0076	BUSINESS	0156	045	657	001	22	1400	1500	M		W		F		3	66.00	66	11	1074	49	50	B
0076	BUSINESS	0156	052	512	001	13	1330	1500		T		H			3	39.00	39	11	1074	49	50	B
0076	BUSINESS	0156	055	510	003	40	1100	1200	M		W		F		3	120.00	120	11	1074	49	50	B
0076	BUSINESS	0156	055	620	001	26	1900	2000		T					3	26.00	78	11	1074			B
0076	BUSINESS	0156	055	620	002	26	0800	0900	M				F			52.00		11	1074			B
0076	BUSINESS	0156	060	500	001	18	0900	1100	M		W		F		6	108.00	108	11	1074			B
0076	BUSINESS	0156	075	513	005	5	1600	1700			W				1	5.00	5	11	1074			B
0076	BUSINESS	0156	075	514	004	6	1500	1600	M			H				12.00		11	1074			B
0165	BUSINESS	0156	045	272	006	24	1100	1200	M		W		F			72.00		11	808			B
0165	BUSINESS	0156	045	317	001	35	0900	1000	M		W		F		3	105.00	105	11	808			B
0165	BUSINESS	0156	045	500	004	25	1400	1500	M		W		F		3	75.00	75	11	808	49	50	B
0165	BUSINESS	0156	045	501	002	31	1300	1400	M		W		F			93.00		11	808	49	50	B

APPENDIX D-2

OFFICE OF FINANCIAL ANALYSIS CLASS SIZE FIT

SCH/COLL BUS ADMIN % OF CLASS

NUMBER OF STATIONS	1 TO 9	10 TO 19	20 TO 29	30 TO 39	40 TO 49	50 TO 59	60 TO 69	70 TO 79	80 TO 89	90 & OVER	TOTAL
1 TO 9											
10 TO 19	7	21	1								29
20 TO 29											
30 TO 39		5		5							10
40 TO 49	14	24	64	67	28						197
50 TO 59											
60 TO 69											
70 TO 79											
80 TO 89											
90 &OVER			3	17	5	12	3	5	2	14	61
TOTAL CLS MTGS/WEEK	21	50	68	89	33	12	3	5	2	14	297

APPENDIX D-3

12-20-67

INTENSITY OF INSTRUCTIONAL ROOM USE-BY TIME OF DAY
FALL TERM 1966
3D. ROOM REPORT

ROOM NO. 3004
BLDG NAME FRIEZE HE
BLDG NO. 0170
ROOM TYPE CLASSROOM

		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	% ROOM PERIOD UTILIZATION	% ROOM STATION UTILIZATION
0800	0830	16	20	20	20	20	0	83.3	64.0
0830	0900	16	20	20	20	20	0	83.3	64.0
0900	0930	19	19	21	21	21	0	83.3	67.3
0930	1000	19	19	21	21	21	0	83.3	67.3
1000	1030	14	18	18	18	18	0	83.3	57.3
1030	1100	14	18	18	18	18	0	83.3	57.3
1100	1130	22	22	22	20	20	0	83.3	70.7
1130	1200	22	22	22	20	20	0	83.3	70.7
1200	1230	19	19	19	19	9	0		
1230	1300	19	19	19	19	9	0		
1300	1330	25	25	25	25	25	0	100.0	100.0
1330	1400	25	25	25	25	25	0	100.0	100.0
1400	1430	10	10	10	10	0	18	100.0	46.4
1430	1500	10	10	10	10	0	18	100.0	46.4
1500	1530	15	15	15	15	13	0	100.0	58.4
1530	1600	15	15	15	15	13	0	100.0	58.4
1600	1630	22	22	22	22	22	0	100.0	88.0
1630	1700	22	22	22	22	22	0	100.0	88.0
1700	1730	16	16	16	16	0	0		
1730	1800	16	16	16	16	0	0		
TOTAL STUDENTS		356	372	376	372	296	36		
% STA DAY UTIL		89.0	93.0	94.0	93.0	74.0	18.0	TOTAL NO. OF STATIONS	25
% ROOM DAY UTIL		125.0	125.0	125.0	125.0	100.0	25.0		
ROOM PERIOD UTILIZATION WEEKLY				111.4				TOTAL SQUARE FEET	441
ROOM STATION UTILIZATION WEEKLY				82.2					

122067 INVENTORY OF ROOMS AND CLASSES PAGE 32

BLDG NAME	BLDG NO.	ROOM NO.	DIV	CRS	CLS	NO.OF STUDENTS	HOUR BEG	HOUR END	DAY MTWHFS	CONTACT HOURS	CREDIT HOURS	NO CR	TYP COD	NET SQ FT	NO.STA	CAPCTY	CELL CODE
ARCHITECT	154	346	020	526	001	7	1300	1400	T H	14.00	14	2	11	626	44	44	A
		NO.OF CLASSES	5			78				206.00	206			626			
ARCHITECT	154	347	010	108	001	17	1000	1200	T H S	102.00	34	2	11	439	24	24	A
ARCHITECT	154	347	010	108	002	20	1000	1200	M W F	120.00	40	2	11	439	24	24	A
ARCHITECT	154	347	010	108	003	12	0800	1000	T H S	72.00	24	2	11	439	24	24	A
ARCHITECT	154	347	010	219	001	20	1400	1700	T H	120.00	40	2	11	439	24	24	A
ARCHITECT	154	347	010	220	001	6	1400	1700	T H	36.00	12	2	11	439	24	24	A
ARCHITECT	154	347	010	221	001	13	1500	2200	T H	78.00	26	2	11	439	24	24	A
ARCHITECT	154	347	010	222	001	8	1500	2200	T H	48.00	8	2	11	439	24	24	A
		NO.OF CLASSES	7			96				576.00	184			439			
NO.OF RMS	4	NO.OF CLASSES	32			545				1837.00	1234			2086	142	142	

APPENDIX D-5